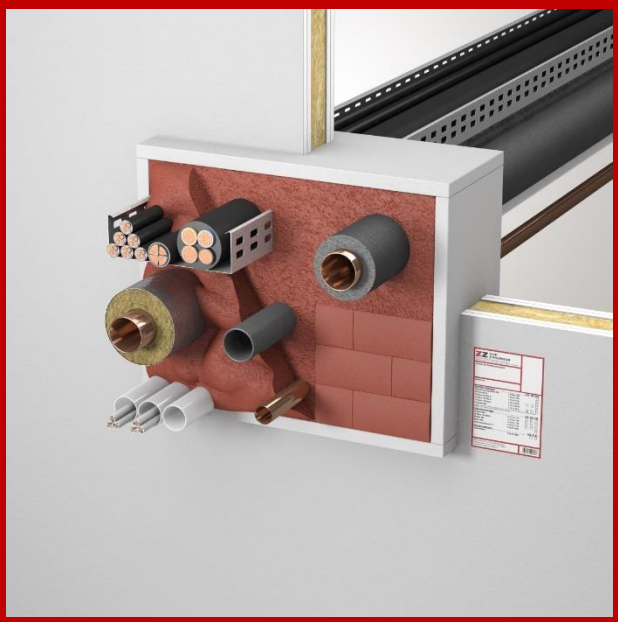
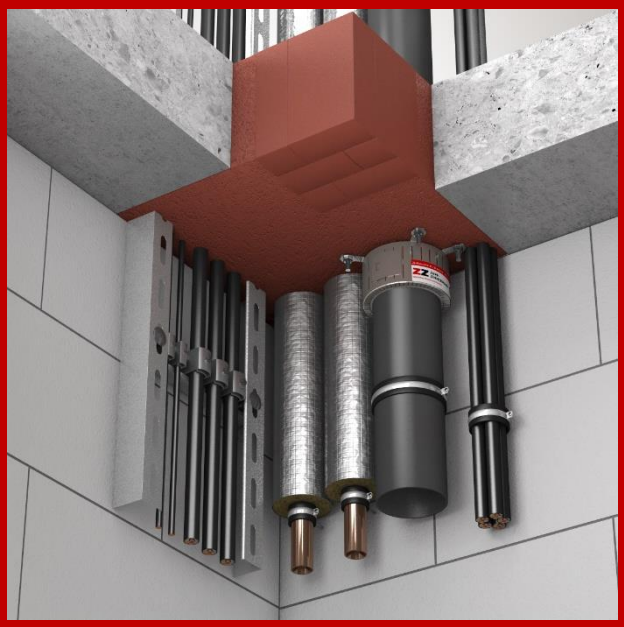
ZAPP-ZIMMERMANN
INNOVATIVE BRANDSCHUTZSYSTEME

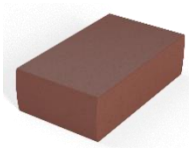
INSTALLATION MANUAL
MIXED PENETRATION SEAL

ZZ® M30 ETA-11/0206





SYSTEM COMPONENTS MIXED PENETRATION SEAL

Illustration	Designation
	ZZ® 330 Fire Protection Foam
	**ZZ® 230 Fire Protection Block**
	ZZ® 451 Fire Protection Bandage
	ZZ® 430 Fire Protection Collar
	Identification Plate for systems according to abZ / aBG / ETA for individual approval

NOTES ON INSTALLATION REQUIREMENTS

/ The instructions provided in the corresponding documentation (ETA) for the use and application of individual components must be strictly adhered to.

/ Prior to installing the system component, the minimum component thickness, necessary installation depth, opening size, required installations, working clearances, spacing regulations, and potential re-occupation must be assessed and dimensioned accordingly.

/ Special precautions must be taken for installation in flexible walls.

FURTHER NOTES

/ **ZZ® M30 Mixed Penetration Seal** can also be implemented as a blank partition. For this purpose specifications from the approval are to be observed.

/ Attention is drawn to the compliance with safety data sheets.

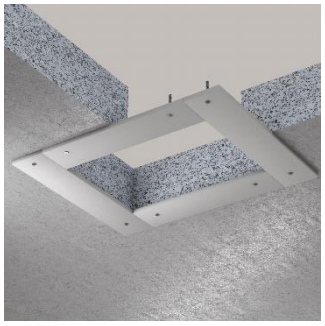
/ For further information and documents, please refer to the download section of our website:

www.z-z.de

www.z-z.eu

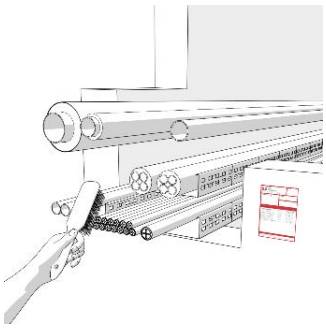
Any further questions?
Please contact our technical support:
phone: **+49 221 97061-720** or email: **support@z-z.de**

INSTALLATION OF FRAMES AND LININGS



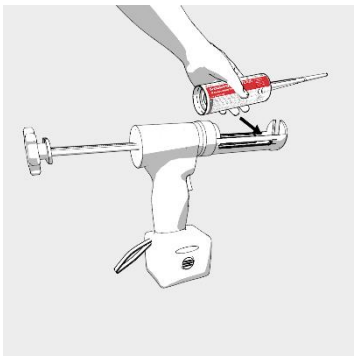
If necessary, skirtings must be provided and for flexible walls is a lining necessary. The requirements for effective fire protection are to be found in the respective certifications.

INSTALLATION OF **ZZ® 330 Fire Protection Foam**

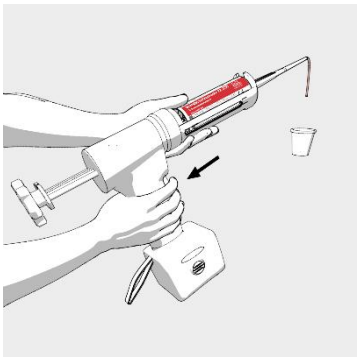


Clean component aperture.

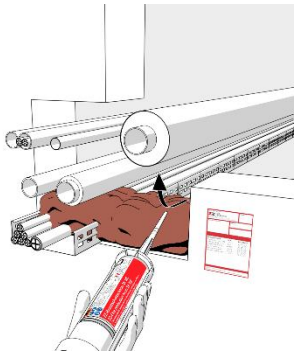
Hold the cartridge vertically with the tip pointing upward, unscrew the sealing cap and screw on the mixer provided.



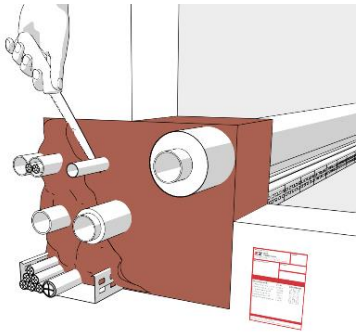
Insert the cartridge into the dispensing gun.



Start pressing out **ZZ® 330 Fire Protection Foam** and discard non-uniform initial material.

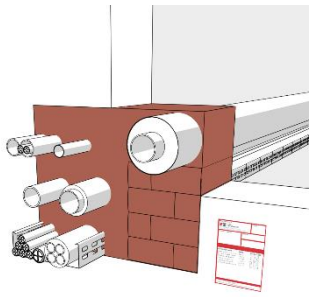


ZZ® 330 Fire Protection Foam should be worked into the opening from back to front. In this process build up the foam from bottom to top, always guide the tip of the mixing nozzle above the foam so that the material does not stick or clog. If work is interrupted for more than 50 seconds the foam will harden in the mixer.

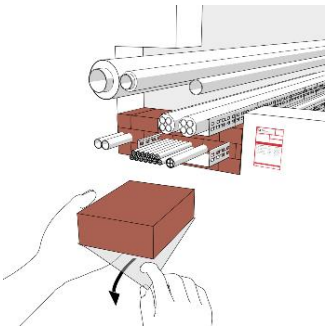


Trim any excess **ZZ® 330 Fire Protection Foam** with a suitable knife after approximately 2 minutes, observing the necessary safety precautions and regulations.

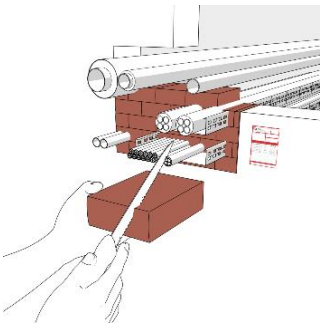
INSTALLATION OF **ZZ® 230 Fire Protection Block**



ZZ® 230 Fire Protection Block can be used to fill large exposed areas.



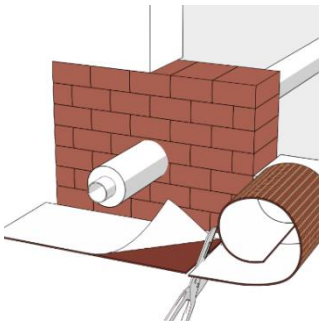
Install the **ZZ® 230 Fire Protection Block** snugly in the masonry bond within the component opening, after removing the protective film.



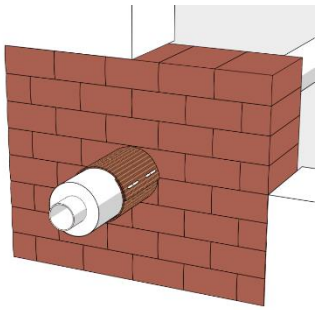
Cut the **ZZ® 230 Fire Protection Block** to the size of the exposed area. Then the remaining opening must be sealed with **ZZ® 330 Fire Protection Foam** in accordance with instructions

INSTALLATION OF **ZZ® 451 Fire Protection Bandage**

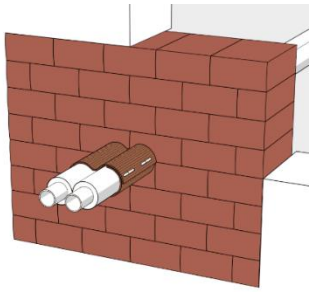
The installation of **ZZ® 451 Fire Protection Bandage** is sometimes required around cables, cable support systems or pre-insulated metal pipes. (certification)



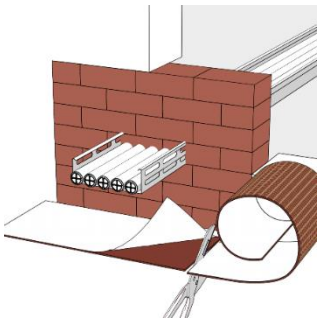
Cut off a sufficiently long piece of **ZZ® 451 Fire Protection Bandage** and after removing dirt from the installation, peel off the protective film and apply the bandage. For wall mounting, apply on both sides, and for ceiling mounting, apply it on the upper side of the ceiling.



The beginning and end of the **ZZ® 451 Fire Protection Bandage** must be connected with at least two steel clips or steel wire. The length of overlap must be at least 45 mm.



ZZ® 451 Fire Protection Bandage can be applied in pairs with zero spacing for certain pipes, using a single bandage.



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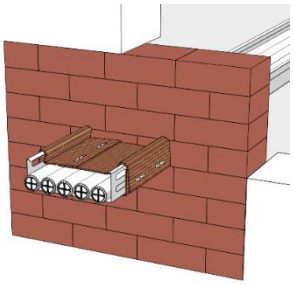

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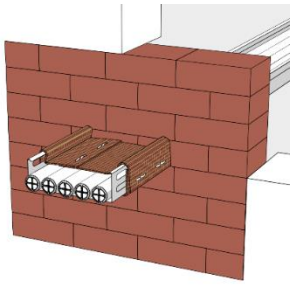
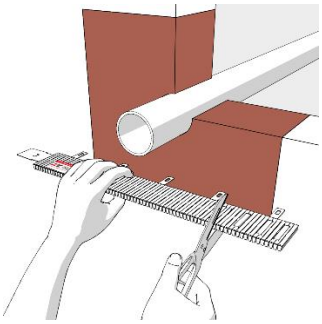
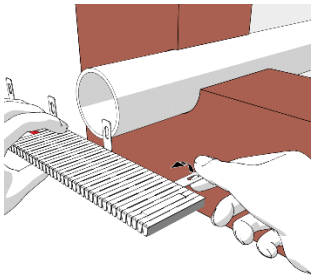


For wall mounting, apply **ZZ® 451 Fire Protection Bandage** on both sides, and for ceiling mounting, apply it on the upper side of the ceiling.

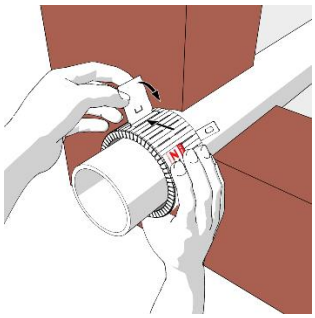
INSTALLATION OF **ZZ® 430 Fire Protection Collar**



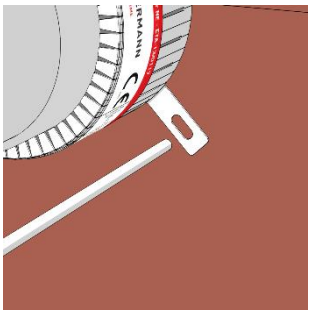
Select the suitable collar size for the pipe or cut the **ZZ® 430 Fire Protection Collar** to size.



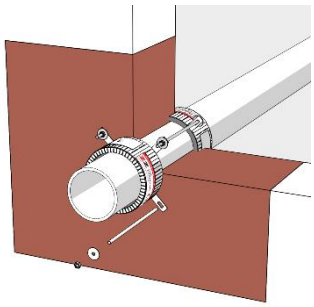
Bend all fastening tabs outward at a right angle.
For soundproofing reasons, the PE sound insulation can be used under the sleeve, and optionally through the penetration sealing. The insulation can be attached around the installation using the included adhesive strip.



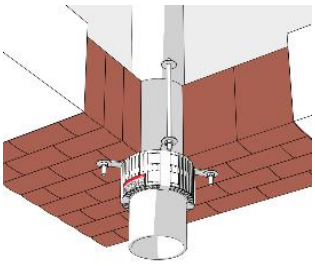
Place the **ZZ® 430 Fire Protection Collar** around the pipe. Fasten the fire protection collar by pulling the locking tab through the opening and bending the tab 180°.



Pass the Ø6 mm threaded rods through the penetration and secure **ZZ® 430 Fire Protection Collar** with washers and nuts.



For wall mounting, apply **ZZ® 430 Fire Protection Collar** on both sides. Therefore the same threaded rods can be used for both sleeves.



ZZ® 430 Fire Protection Collar must be installed on the underside for ceiling mounting.

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